

ABSTRACT

Tool fixing device for a machine tool spindle compactly configured by the connection of the gas spring as urging means and the fluid pressure cylinder as release means. The tool fixing device (4) comprises a draw bar (11) connectable to the base of the tool (5), an urging mechanism (12) for urging the draw bar (11) to the tool fixing side, and a release mechanism (13) able to drive the draw bar (11) to the tool release side resisting the urging force of the urging mechanism (12). A draw bar extension part (24) extending to the outside of the end face of the base of the spindle (2) is formed in a section of the base side of the draw bar (11), the urging mechanism (12) comprises a gas spring (30), connected to the base of the spindle to rotate integrally therewith, for urging the draw bar (11) to the tool fixing side of the draw bar extension part (24), and the release mechanism (13) comprises a fluid pressure cylinder (40) connected to the base of the gas cylinder (30), which is able to drive the draw bar (11) to the tool release side of the draw bar extension part (24).